



Windows 10 Mobile (LUMIA)

Community Group

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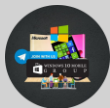
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HOW TO INTEROP UNLOCK **OTHER-OEM** DEVICES

Requirements

- ❖ A Windows PC (Minimum: Windows 7 SP1 | Recommended: Windows 8 & above)
- ❖ Bootloader Unlocked Lumia Device.

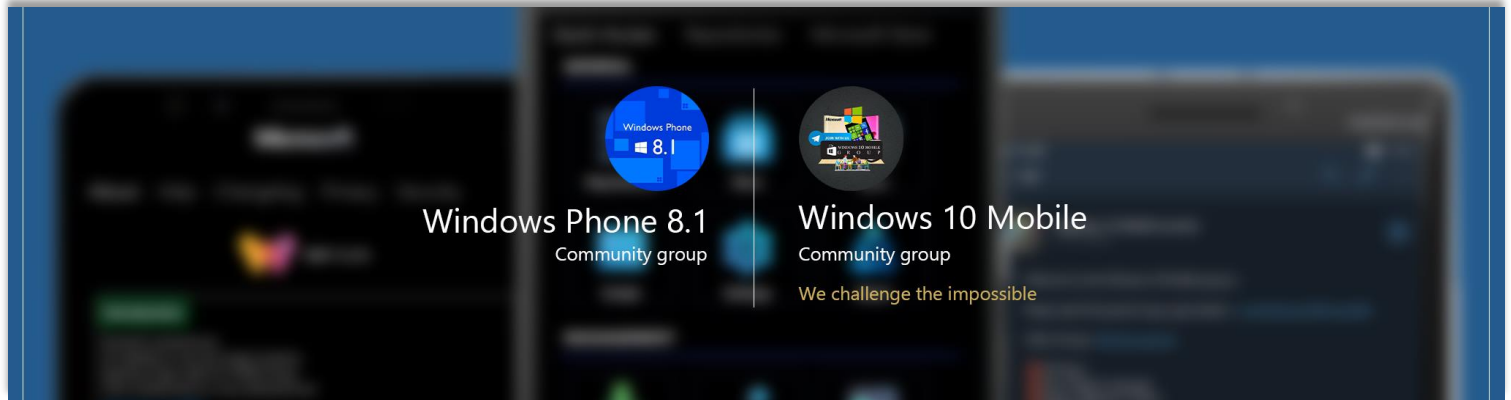


W10M GROUP

We challenge the Impossible!

OTHER-OEM INTEROP UNLOCK

LAST UPDATE: 9/17/2023



W10M Group YouTube Channel



YOUTUBE

Apart from these documented Guides, we have started the roll up of Video Versions of each guide in our YouTube Channel.

Don't forget to **like** and **subscribe**!

How to Interop Unlock Other-OEM Devices



YOUTUBE

If you prefer video guidance over documented guidance, then you can follow the below video guide.

HOW TO INTEROP UNLOCK OTHER-OEM W10M DEVICES

- > What are OTHER-OEM Devices?
- > Interop Unlock OTHER-OEM Devices
- > Frequently Asked Questions (FAQ)

The image shows a smartphone screen displaying the 'INTEROP UNLOCK' application. The app has a dark theme and lists several settings that can be toggled on or off. A large white padlock icon is overlaid on the screen, indicating that the device is locked. The settings listed include:

- InteropCap Unlock: Unlocks all caps including in-app purchases. (On)
- New Capability Engine Unlock: Unlocks all caps for the new engine. (On)
- Full Filesystem Access: Allows accessing Mac OS / Linux / Windows Computer via MTP (Can cause problems on devices with a USB type C port). (Off)
- Restore NDKSec: Restore the original path to the NDKSec.dll (allows editing the registry again). (Off)

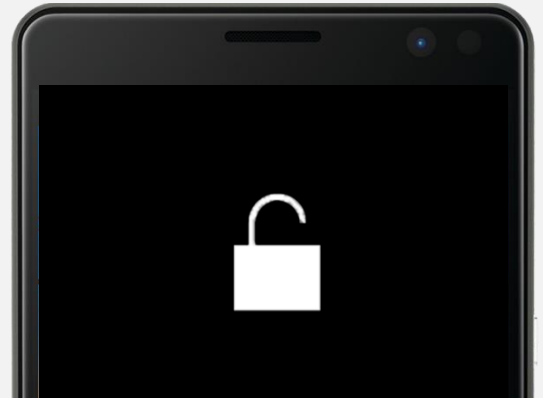
At the bottom, there is a button that says 'Allow the installation of NDK on any device'.



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OTHER-OEM INTEROP UNLOCK

COMPLETE GUIDE



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Introduction

What exactly is Interop Unlock and do you really need it?

YES, this unlock is mandatory if you are to enjoy your Windows Phone now, here's what it does;

- This whole procedure will give you read and write access to almost most of the registry hives and keys.
- It will also remove the sideloadable package limit of the developer mode hence you can deploy unlimited number of apps apart from installing via Microsoft store.
- Also, this will enable new app capabilities that are restricted otherwise which are being used in third party sideloadable apps
(*Mostly power user / Advanced*)

Also, beware that **Interop tools application is not the same as Interop Unlock**, it's just a tool which autoamtes the Unlock procedure in supported Devices.

That means merely installing the app doesn't mean the device is Interop Unlocked!

What are OTHER-OEM Devices?

Any Windows Phone not made by NOKIA / Microsoft are called Other-OEM Windows Phones.

In other words, **any Windows Phone which isn't a LUMIA is an Other-OEM Device.**

Are there any pre-requirements?

NO.

This can be done even on a newly reset device as well.



Preparations

Download WP Common packaging tools & install it.



W.U.T



MEGA



Welcome to the Windows Phone Common Packaging and Test Tools (NT_x86_fre) Setup Wizard

The Setup Wizard allows you to change the way Windows Phone Common Packaging and Test Tools (NT_x86_fre) features are installed on your computer or to remove it from your computer. Click Next to continue or Cancel to exit the Setup Wizard.

Download OTHER_OEM_Unlock.ZIP.

Extract it to a folder matching the ZIP name in to the Root Drive (C:) of your PC.

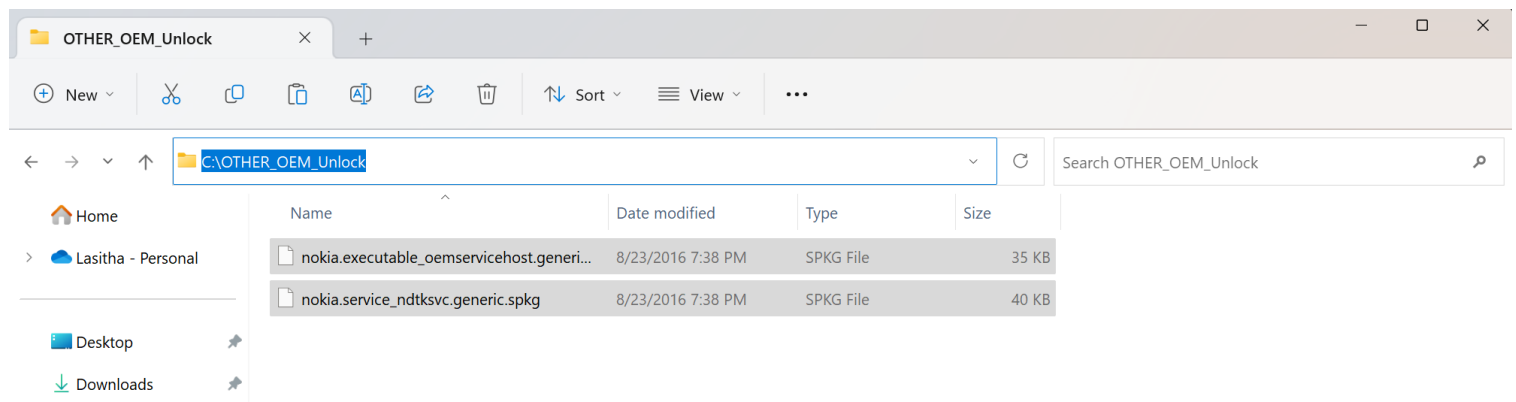
(Refer to the screenshot for more details)



MEGA



DROPBOX



Download Interop Tools & Install in your Lumia.



GITHUB



W.U.T



MEGA



DROPBOX

 InteropTools_2.1.24.0_arm_LegacyReleas...	10/19/2021 1:52 AM	APPXBUNDLE File	16,801 KB
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NOTE

Only Interop Tools **2.0.95 / 2.1.24** or newer Versions are compatible to use with this guide, go with the latest!

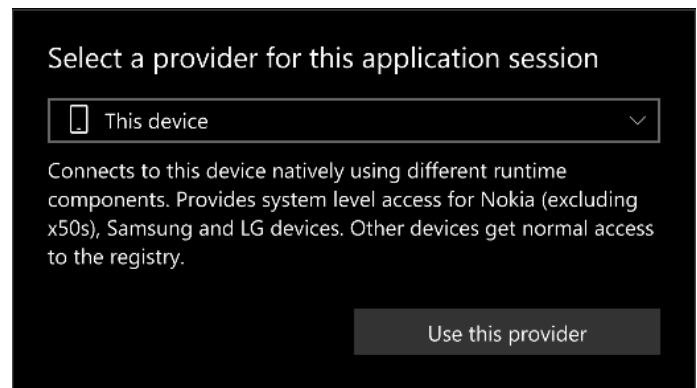


Interop Unlock OTHER-OEM Windows Phones

> Open Interop Tools application.

> Choose **This Device** as the provider.

(Do not choose *This Device (Through provider extensions)*)



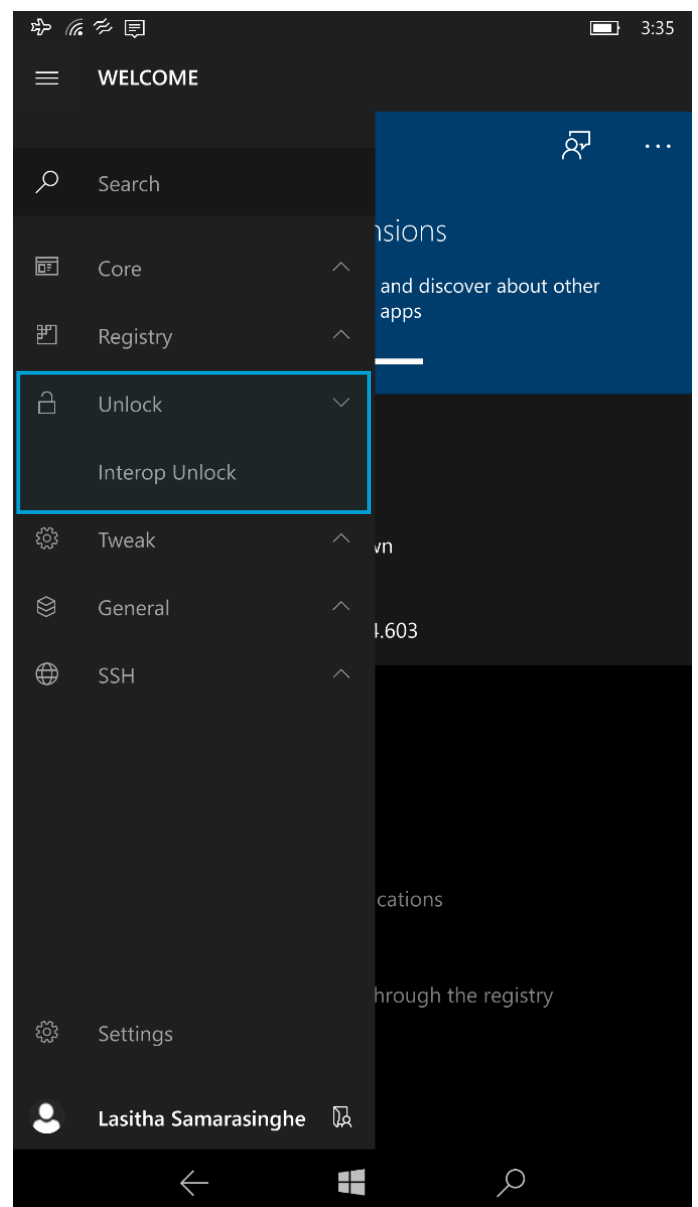
> Then, expand the the hamburger menu (Side menu)

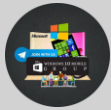
Expand the **Unlock** section.

Click **Interop Unlock** entry.

That will take you to the Interop Unlock page.

DO NOT ACTIVATE ANY OF THE TOGGLES YET!!





> There find the button at the bottom which says **“Allow the installation of NDTK on any device”** & click on it.

Allow the installation of NDTK on any device

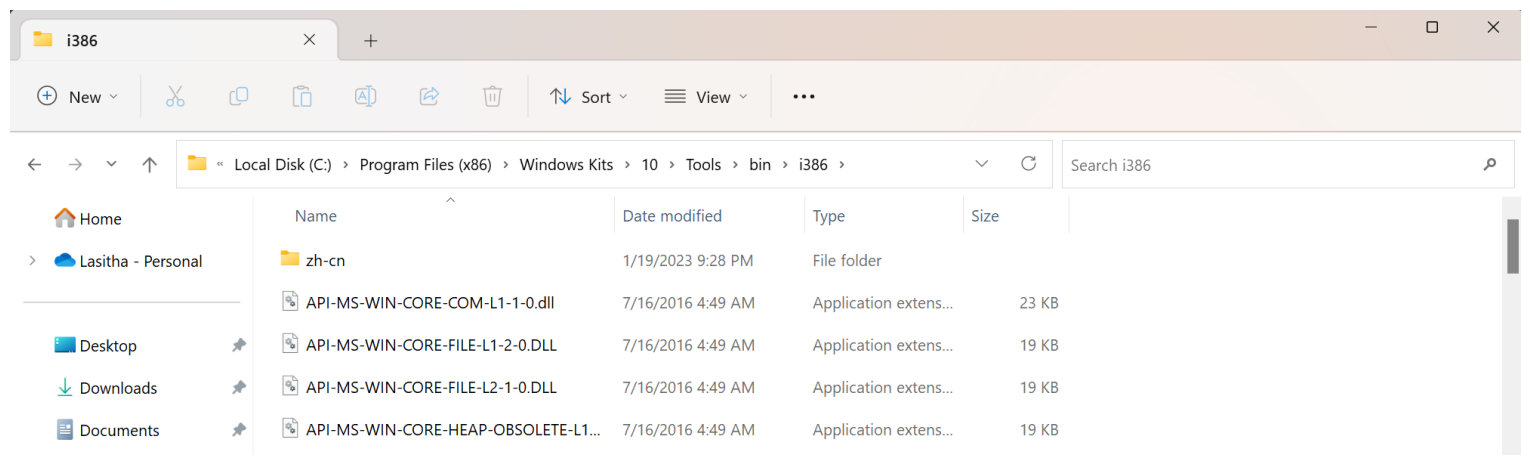
(Then it will change to **“Restore Default Manufacturer”**, don’t re-click it yet!)

> Now connect your phone to PC via USB Connection.

> Open File explorer in your PC & navigate to the below path;

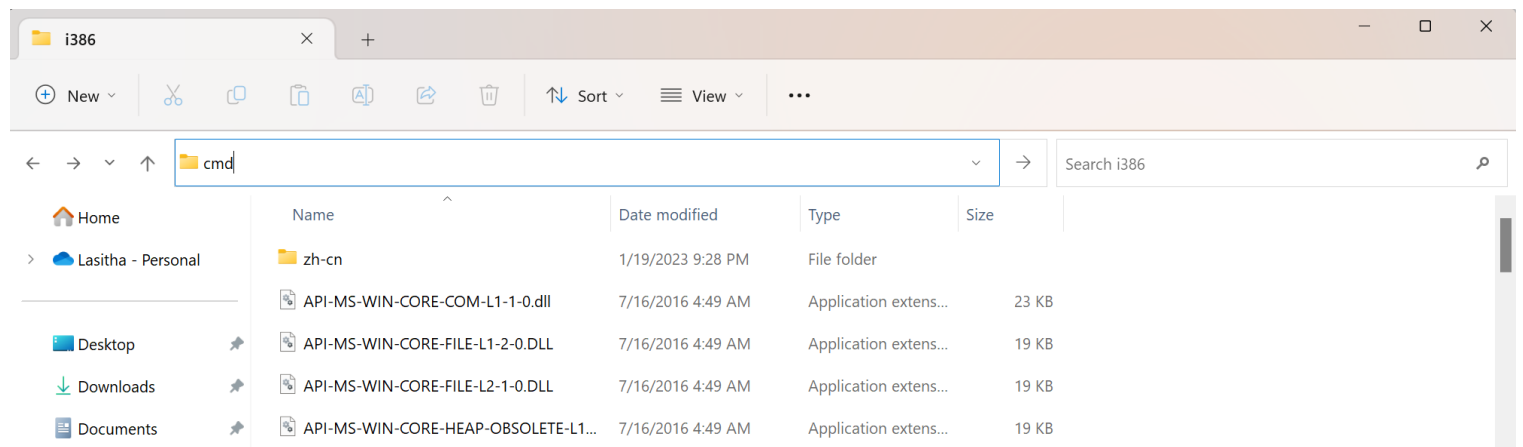
C:\Program Files (x86)\Windows Kits\10\Tools\bin\i386

(Will not exist if you have installed [WP Common packaging tools as in Preparations](#))



Click on the address bar and type **CMD**.

Then press enter.





> That will open a Command prompt window in that directory.

```
C:\Windows\System32\cmd.e  ×  +  ▾

Microsoft Windows [Version 10.0.22621.1555]
(c) Microsoft Corporation. All rights reserved.

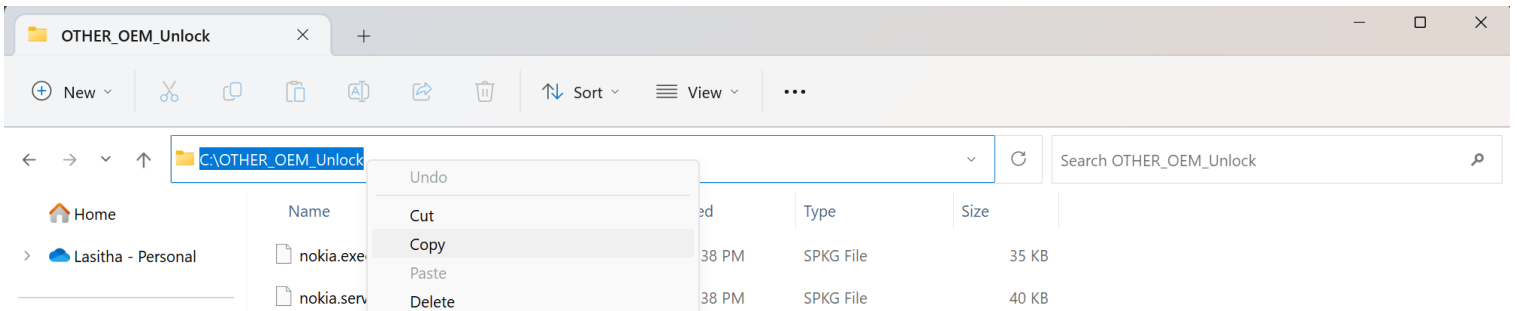
C:\Program Files (x86)\Windows Kits\10\Tools\bin\i386>
```

> Now what we have to do is to push the two SPKG files which were in the **OTHER_OEM_Unlock** ZIP which [we downloaded in the first preparations step](#).

Namely, we need to push both **nokia.executable_oemservicehost.generic.spkg** & **nokia.service_ndtksvc.generic.spkg** to your OTHER-OEM Windows Phone.

So, go to the folder where you have extracted these files ([In preparations, we said to extract them to root drive of your PC](#))

Copy it's path.



Back to the Command prompt window.

> Now start typing the below command;

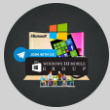
lutool -v -p "C:\OTHER_OEM_Unlock"

(Replace **C:\OTHER_OEM_Unlock** if you placed the files elsewhere unlike Instructed in [Preparations](#))

```
C:\Windows\System32\cmd.e  ×  +  ▾

Microsoft Windows [Version 10.0.22621.1555]
(c) Microsoft Corporation. All rights reserved.

C:\Program Files (x86)\Windows Kits\10\Tools\bin\i386>lutool -v -p "C:\OtherOEMUnlock"
```

> Re-check the command **syntax** & **path**, and press enter when you are done!

```
(IUTool Version: 13:54:04/Apr 29 2015)
Log file: C:\Users\lasit\AppData\Local\Temp\IUTool-{299338D7-E9AD-4D02-BD74-B341894FDEEF}.etl
[1] Started device 2469e17ab043ecdcd34801796d70555e
[1] Transferring files started
[1] Transferring files complete: 2 files
[1] Update started
```

If there are no errors, your **phone will reboot in a matter of seconds**.

Then the phone will boot to the Update OS (*Rotating cogs*) and the installation will begin.

You will have a progress bar to monitor the installation although the installation will not take more than a couple of minutes.



Common iutool Error Codes...

Error Code: 0x80070490 / 0x8007005

If you receive this error, disconnect your phone from PC.

> Go to *Control Panel* → *Devices and Printers*, find your windows phone, right click on it and click “Remove device”.

> Then re-connect phone to PC and re-run the Command, the SPKG will be pushed without errors.

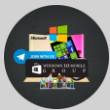
Error Code: 0x8007003

If you receive this error, then that can be due to two reasons mainly;

- You haven't clicked **Allow the installation of NDTK on any device** Button.
- The bootloader of the phone is unlocked; if so, **re-lock it**.

Getting a different error?

Check in the Iutool error code list: [IUTool error codes - Windows 10 hardware dev | Microsoft Learn](#)



When the update is finished and the phone boots back;

> Open Interop Tools and go back to the **Interop Unlock page**.

> Now you need to click on the “**Restore default manufacturer**” button at the bottom.

Restore default manufacturer

The button then will change back to “**Allow the installation of NDTK on any device**”

(Don't mind if the app crashed after clicking it)

> Now, all you got to do is to enable the first & second toggles, namely;

Interop/Cap Unlock

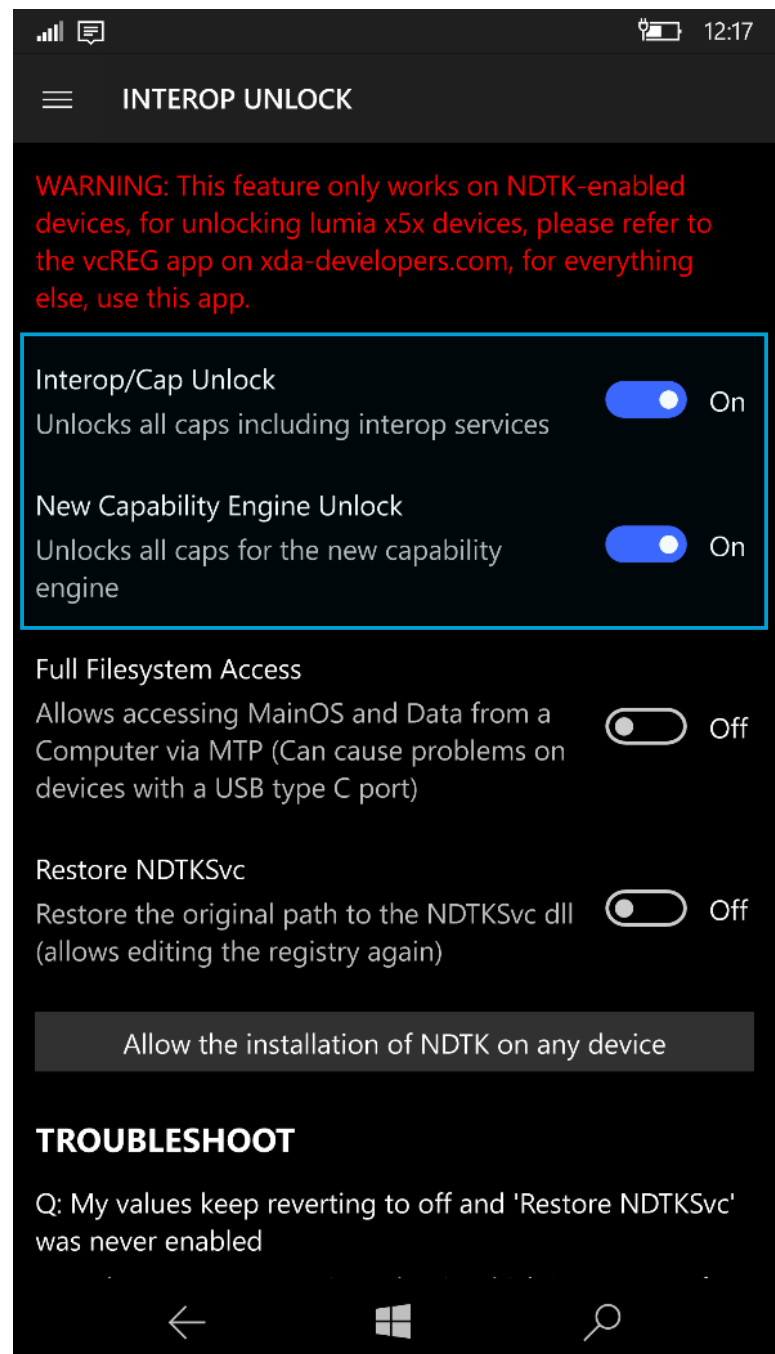
New Capability Engine Unlock

WARNING!

*DO NOT ENABLE **Restore NDTKSvc** TOGGLE IN ANY OTHER-OEM WINDOWS PHONE DEVICE.*

That is all!

Your **OTHER-OEM Windows Phone** is now **Interop Unlocked!**





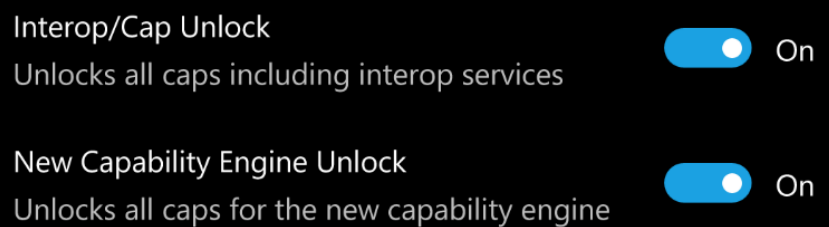
Frequently Asked Questions (FAQ)

Q. How to turn off Interop Unlock?

A. Once turned ON, it's tricky to turn it off, but **there is no reason to turn it OFF cause Interop Unlock doesn't create any problems with the OS or it's functionality.**

Q. If I hard reset the phone, will I lose Interop Unlock?

A. Yes, but if you want to re-enable, just go to Interop Unlock page and re-enable **Interop/Cap Unlock & New Capability Engine Unlock** toggles, all the previous steps aren't needed to re-do.



Q. If I re-flash the phone, will I lose Interop Unlock?

A. Yes, you will **lose it completely** and need to **do this guide from the beginning to have it back enabled.**

Q. What does Full FileSystem Access toggle do?

A. This an **optional** toggle, it is used to get limited read & write access to **C Drive (MainOS)** via the MTP connection to PC.

It is not very useful and can glitch the USB connection in USB Type-C devices as well so **it's not recommended to enable.**

Q. When enabling *Interop/Cap Unlock* and *New Capability engine unlock* in Interop tools, the app shows “**Working**” in status bar and seems stuck doing it, what is the cause?

A. You have to use Interop Tools **2.0.95** OR **2.1.24** version, all other older versions are not compatible.

Q. Interop/Cap Unlock toggle in Interop tools is **turned off after a reboot**, but other toggles are turned ON, is that an issue?

A. NO, you don't have to worry about it if that happened, the unlock is still enabled.



End notes

- Do not skip any steps!
- After Interop Unlocked, you can freely use any Interop Tools application version you want.

Credits

- ✓ Gustave Monce for Interop Tools

That is all to cover in this Guide!

THANK YOU!!

Lasitha Samarasinghe

